



## Agriculture News Yellowstone County Extension

September 10, 2007

TO: Farm & Ranch Businesses  
FROM: Paul V. Dixon  
Yellowstone County Agriculture Agent

I regretfully announce that I will be leaving my position as MSU / Yellowstone County Extension Agent effective September 14, 2007. I would like to thank Yellowstone County, MSU and especially the agricultural producers in Yellowstone County for providing me the privilege of serving as the Extension Agent these last eight years. My time in this position has been very rewarding.

### **2007 Southern Ag Research Center Off-Station Winter Wheat Trial Results**

The 2007 off-station winter wheat trials were established under dryland conditions near Forsyth under conventional summer fallow conditions; Hardin, Lodge Grass, Molt and Rapelje under no-till, chemical fallow conditions; and under no-till, irrigated recrop conditions at Huntley. Each dryland trial contained 25 winter wheat entries (21 cultivars, 4 experimental lines). The irrigated trial near Huntley contained 28 winter wheat entries (23 cultivars, 5 experimental lines). All entries were seeded at approximately 1 million seeds per acre under dryland conditions (~60 lb/a) and 1.5 million seeds per acre under irrigation (~90 lb/a). Seeding rates were not adjusted for germination. Dryland test plots consisted of a 15-foot, 4-row plot with 14-inch row spacing. Irrigated test plots consisted of a 15-foot, 7-row plot with 7-inch row spacing. All rows of each harvested test plot were trimmed 36 inches and harvested using an experimental plot combine. Recorded grain yields were adjusted to 13% grain moisture content, and are reported in bushels per acre based on a 60 pound standard bushel weight.

Full results and data are available at <http://www.co.yellowstone.mt.gov/extension/ag/> or call Leslie at the Extension Office (256-2828).

Table 9. Grain yield<sup>1</sup> of 28 commercial and experimental winter wheat cultivars tested at six locations in south central Montana during 2007. Varieties listed by declining average yield across all locations.

Cultivar	Rapelje No-Till Dryland	Forsyth Conv. Dryland	Lodge Grass No-Till Dryland	Hardin No-Till Dryland	Molt No-Till Dryland	Dryland Locations Average	Huntley No-Till Irrigated	All Locations Average
	bushels per acre							
Pryor	<b>78.7*</b>	<b>49.5*</b>	<b>54.5*</b>	<b>84.8**</b>	28.5	<b>61.2**</b>	<b>111.6*</b>	<b>69.6**</b>
Wahoo	<b>82.9*</b>	<b>52.3**</b>	<b>53.6*</b>	<b>82.7*</b>	25.6	<b>59.9*</b>	102.2	<b>67.0*</b>
Promontory	<b>81.6*</b>	39.1	43.7	<b>75.8*</b>	17.3	51.7	<b>130.1**</b>	<b>64.8*</b>
MTS04120	<b>74.3*</b>	39.2	<b>48.3*</b>	<b>75.9*</b>	31.2	<b>53.4*</b>	<b>118.3*</b>	<b>64.2*</b>
MTCL0477	<b>81.3*</b>	43.4	<b>51.8*</b>	<b>78.1*</b>	18.5	<b>54.1*</b>	<b>114.3*</b>	<b>64.2*</b>
CDC Falcon	<b>70.2*</b>	41.9	<b>48.5*</b>	<b>82.8*</b>	13.9	51.7	<b>121.0*</b>	<b>63.3*</b>
Neeley	70.2	44.1	<b>49.8*</b>	<b>80.2*</b>	26.8	<b>54.8*</b>	97.8	<b>62.0*</b>
Yellowstone	<b>84.9**</b>	45.7	32.1	<b>76.0*</b>	25.2	51.6	111.0	<b>61.5*</b>
MT0495	<b>73.3*</b>	40.5	<b>49.6*</b>	<b>74.4*</b>	22.9	51.1	110.5	61.0
Tiber	<b>79.0*</b>	40.8	<b>51.6*</b>	69.8	28.0	<b>53.3*</b>	95.4	60.3
Norris	<b>77.3*</b>	40.9	42.1	<b>78.7*</b>	12.3	49.8	110.0	59.9
Hyalite	<b>73.3*</b>	32.4	<b>48.4*</b>	67.5	23.4	49.4	111.0	59.7
MTS04114	<b>81.4*</b>	44.3	<b>48.0*</b>	68.2	17.6	50.8	104.1	59.7
Jagalene	<b>73.4*</b>	37.0	<b>44.4*</b>	64.8	20.1	48.5	<b>114.3*</b>	59.5
NuSky	<b>82.5*</b>	39.4	<b>47.1*</b>	72.2	23.3	52.6	94.1	59.5
Deloris	<b>79.8*</b>	38.7	42.4	64.5	22.8	49.4	110.0	59.5
Morgan	<b>81.2*</b>	41.5	39.3	70.2	21.9	52.1	90.8	58.5
Ledger	69.8	<b>47.4*</b>	39.7	70.5	24.7	51.0	93.1	58.0
Genou	54.2	38.5	<b>45.5*</b>	69.1	20.3	47.1	107.0	57.1
Jerry	<b>75.8*</b>	41.9	39.4	63.4	14.9	47.9	103.5	57.1
Rocky	66.0	42.8	<b>51.2*</b>	<b>72.8*</b>	25.2	51.1	83.2	56.4
Rampart	64.5	34.1	<b>53.3*</b>	64.5	20.2	46.9	94.6	54.8
BigSky	<b>78.6*</b>	40.8	42.3	61.0	19.7	47.9	88.8	54.7
Vanguard	60.4	38.0	<b>55.0**</b>	61.7	25.4	47.4	89.0	54.4
Bynum	48.5	35.2	42.8	66.2	14.5	40.5	90.3	48.8
Moreland <sup>§</sup>	--	--	--	--	--	--	<b>121.6*</b>	--
Garland <sup>§</sup>	--	--	--	--	--	--	101.0	--
UT9743-42 <sup>§</sup>	--	--	--	--	--	--	103.0	--
Average	73.7	41.2	46.6	71.8	21.8	51.0	104.3	59.8
PLSD (p=0.05)	14.8	5.7	11.0	12.0	ns	8.0	18.7	8.4
CV%	12.2	7.6	13.0	9.4	33.9	21.6	11.0	21.3

<sup>1</sup> Yields are based on a 60 pound standard bushel weight and adjusted to 13.0 percent moisture content.

<sup>§</sup> Tested under irrigated conditions only in 2007.

ns Indicates no significant difference between cultivars within a column based on Fisher's protected LSD (p=0.05).

\*\* Indicates highest yielding cultivar within a column.

\* Indicates cultivars yielding equal to highest yielding cultivar within a column based on Fisher's protected LSD (p=0.05).